Course Specifications

General Information

Course name	Medical Parasitology
Course number	AMSL3319
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	2
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1 - In this course, we will examine parasites and parasitism, emphasizing the influence of parasites on The ecology and evolution of free-living species, and the role of parasites in global public health.

Intended Learning Outcomes

Knowledge and Understanding

* 1- Draw and explain the life cycles of the major parasites of humans (trypanosomes, intestinal amoebas and flagellates, Plasmodium spp., schistosomes, tapeworms, Ascaris, hookworms, and Filarial worms.)
* 2- Explain the significance of parasite population structures, especially in terms of economic impact, epidemiology, and health care delivery.
* 3- Explain the role of vectors in the transmission and maintenance of parasitic infections.
* 4- Be able to explain the geographical distribution, disease caused, the pathological effect on the host, diagnostic stages, and treatment for a select number of human and veterinary important parasites.
* 5- Demonstrate skill in use of the microscope by finding parasites in various kinds of preparations and explaining what those parasites are, including life cycle stages.

Course Contents

1 - Week 1 Introduction – The nature of parasitism
2 - Week 2 Introduction to the Protozoa
3 - Week 3 Trypanosomes
4 - Week 4 Leishmania and other flagellates
5 - Week 5 Amoebae ,ciliates and Malaria
6 - Week 6 Midterm exam
7 - Week 7 Trematodes, - Blood flukes, other flukes
8 - Week 8 Cestode
9 - Week 9 Introduction to Nematodes Rhabditids, hookworms
10 - Week 10 Trichostrongyles, Ascarids & Oxyurids
11 - Week 11 Filarids and Guinea worm, Arthropods
12 - Week 12 revision

Teaching and Learning Methods

1 - Lecture Notes
2 - Power point presentations
3 - Laboratory sessions

Students Assessment

Assessment Method	TIME	MARKS
Midterm Exam		20%
Laboratory work	and final practical examDuring the semester	30%
Final Theory exam	End of semester	50%

Books and References

Course note	1- Loker ES, Hofkin B. Parasitology: a Conceptual Approach. New York and London: Garland Science (Taylor & Francis).2015.560 pp. 2- Zeibig EA. Clinical Parasitology. 2013.St. Lous: Elsevier.370 pp
Essential books	Clinical Parasitology